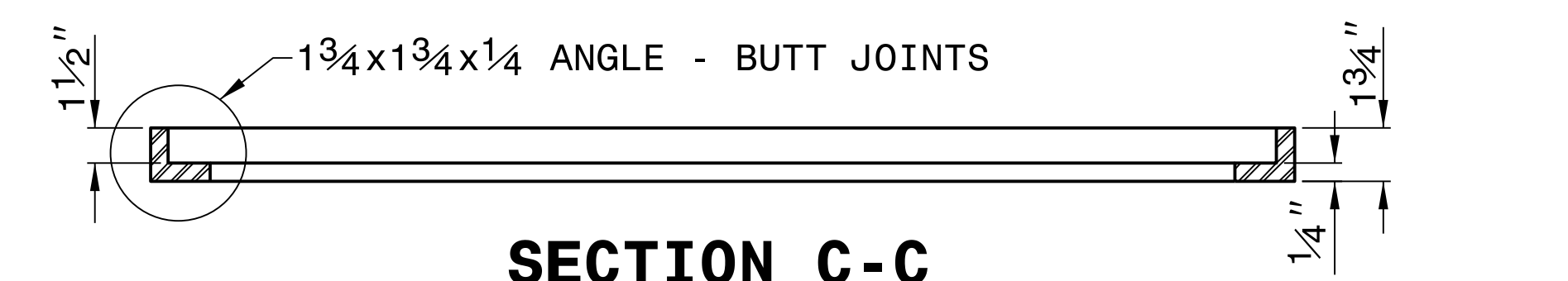
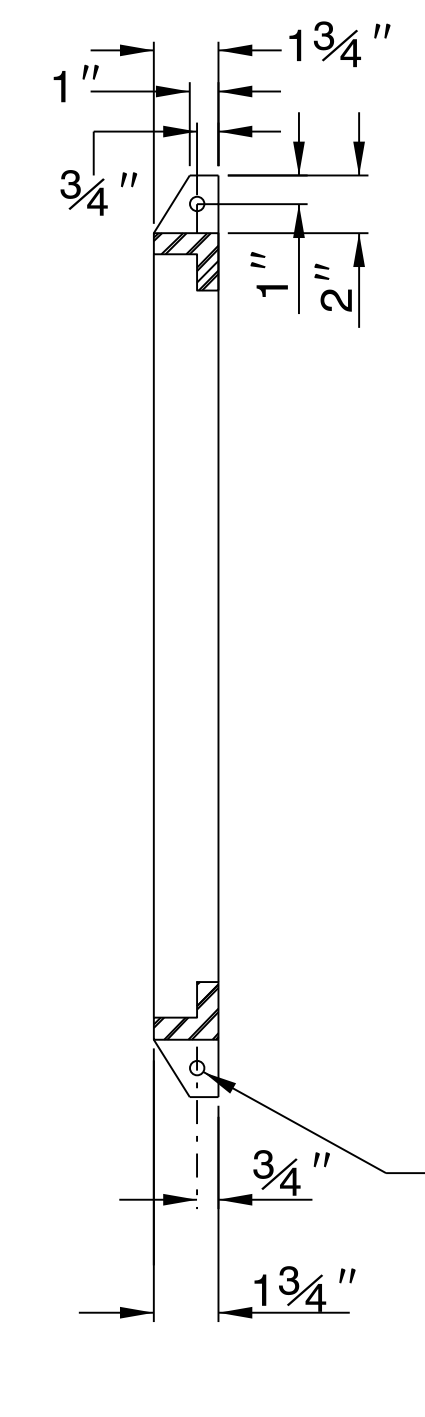


**PLAN VIEW**



**SECTION C-C  
FRAME**

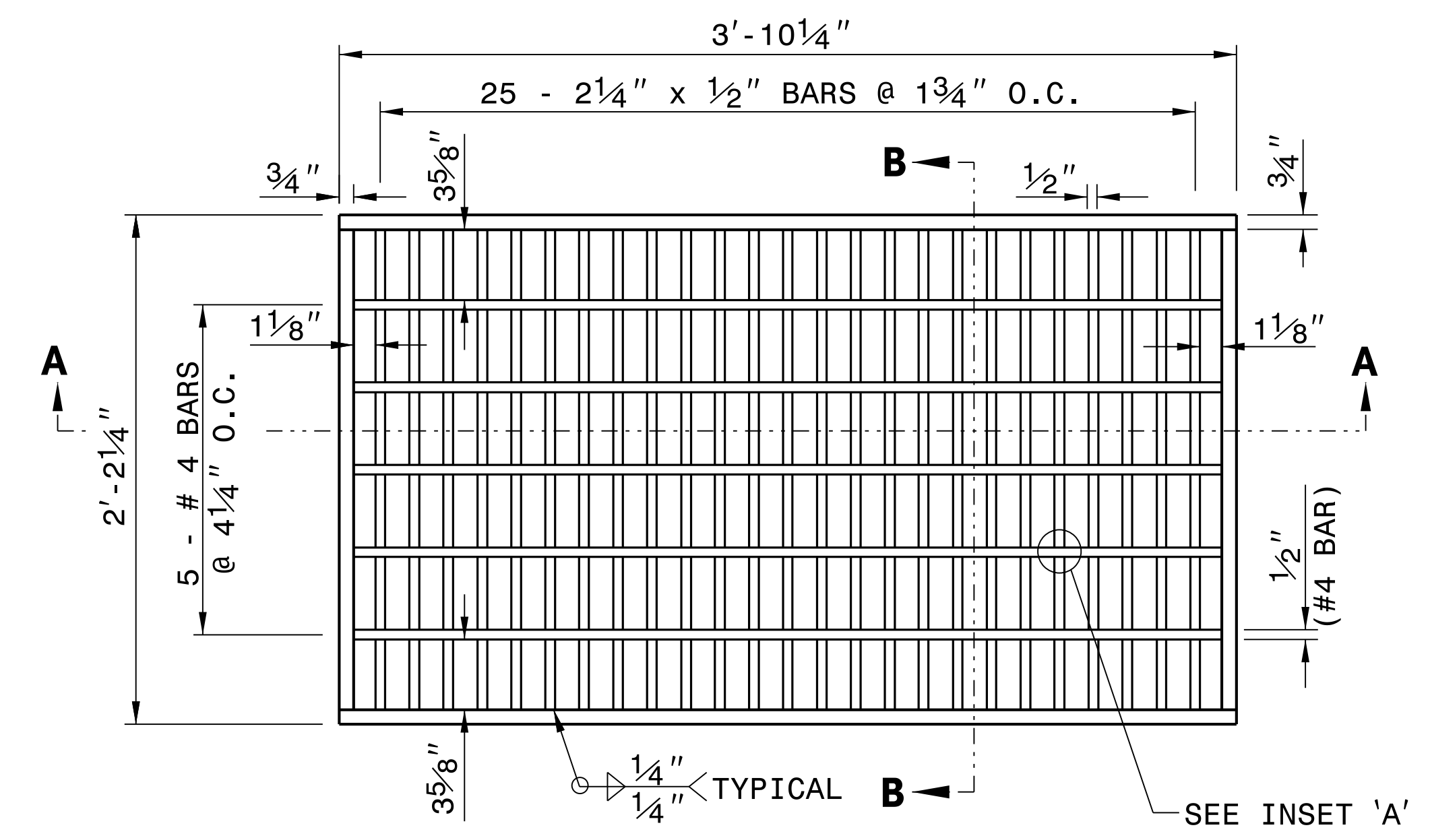


**SECTION 'D-D'**

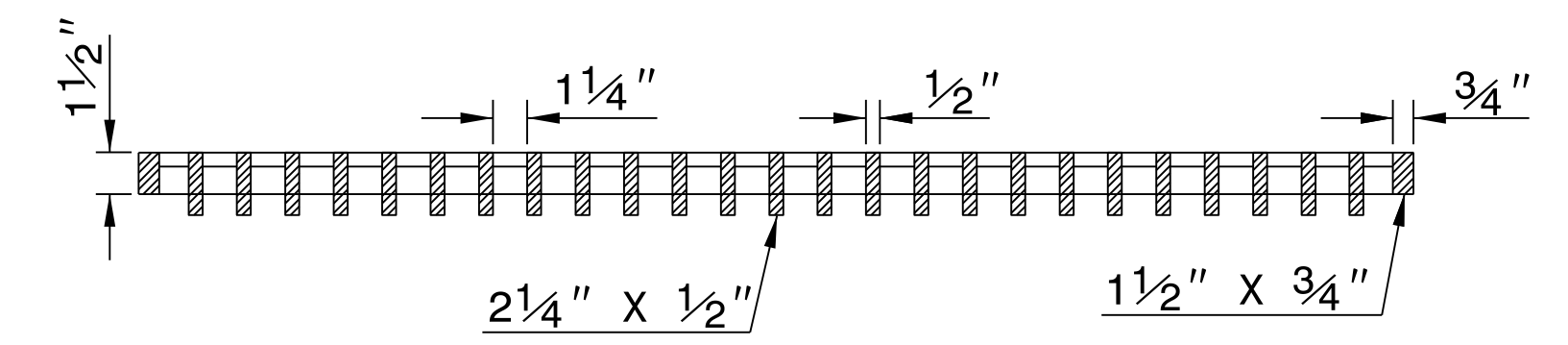
1/2" DIA. HOLE FOR  
3/8" DIA. CONCRETE  
ANCHOR (4 REQUIRED)  
(SEE STANDARD 840.25  
FOR FRAME ANCHORAGE)

**NOTES:**

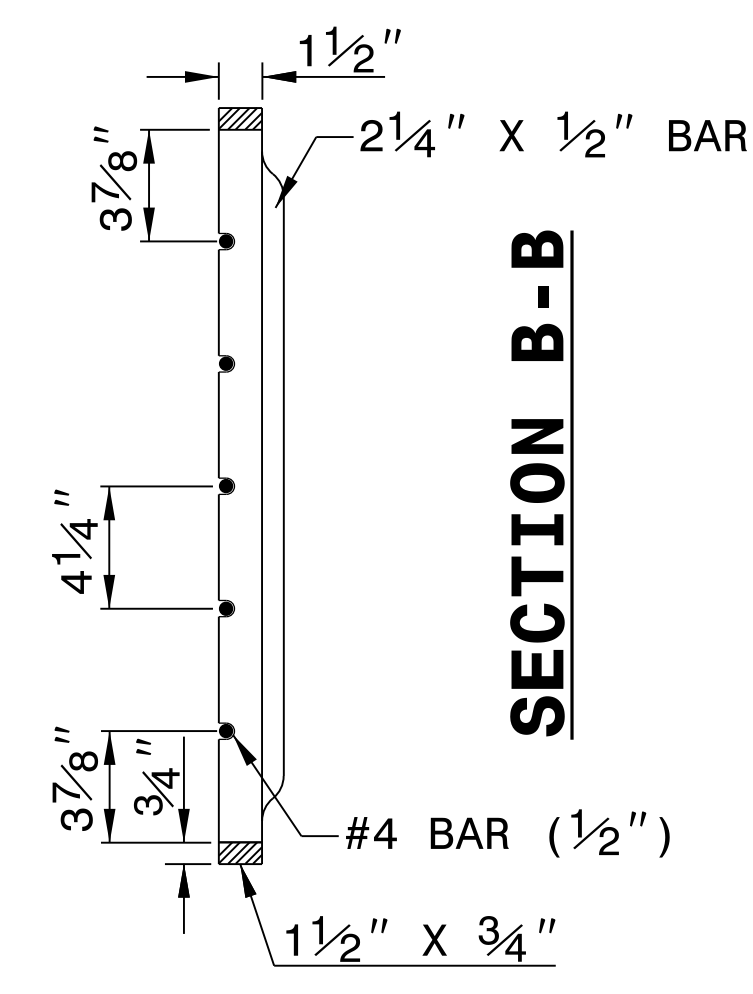
1. HOT DIP GALVANIZE FRAME AND GRATE IN ACCORDANCE WITH ASTM DESIGNATION A-123 AND AASHTO M-111.
2. GRATE SHOULD MEET HS-20 LOADING.
3. PROVIDE STEEL CONFORMING TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A-36.
4. WELD IN ACCORDANCE WITH THE ANSI/AASHTO/AWS D1.5 WELDING CODE. SEAL WELD ALL CONNECTIONS ALONG TOP AND BOTTOM HORIZONTAL SEAMS OF CONNECTIONS IN ADDITION TO ANY REQUIRED STRUCTURAL WELDS.
5. SEE STANDARD DRAWING 840.25 FOR FRAME ANCHORAGE.



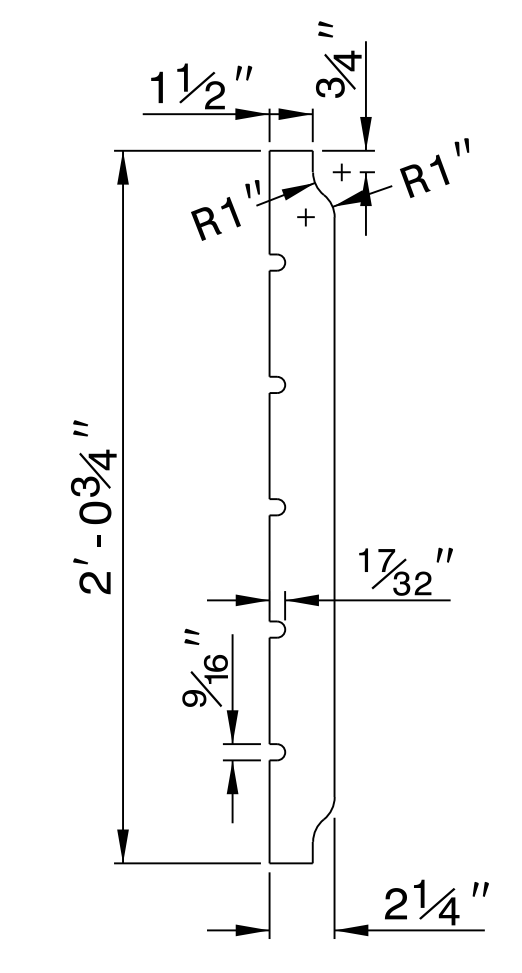
**PLAN VIEW**



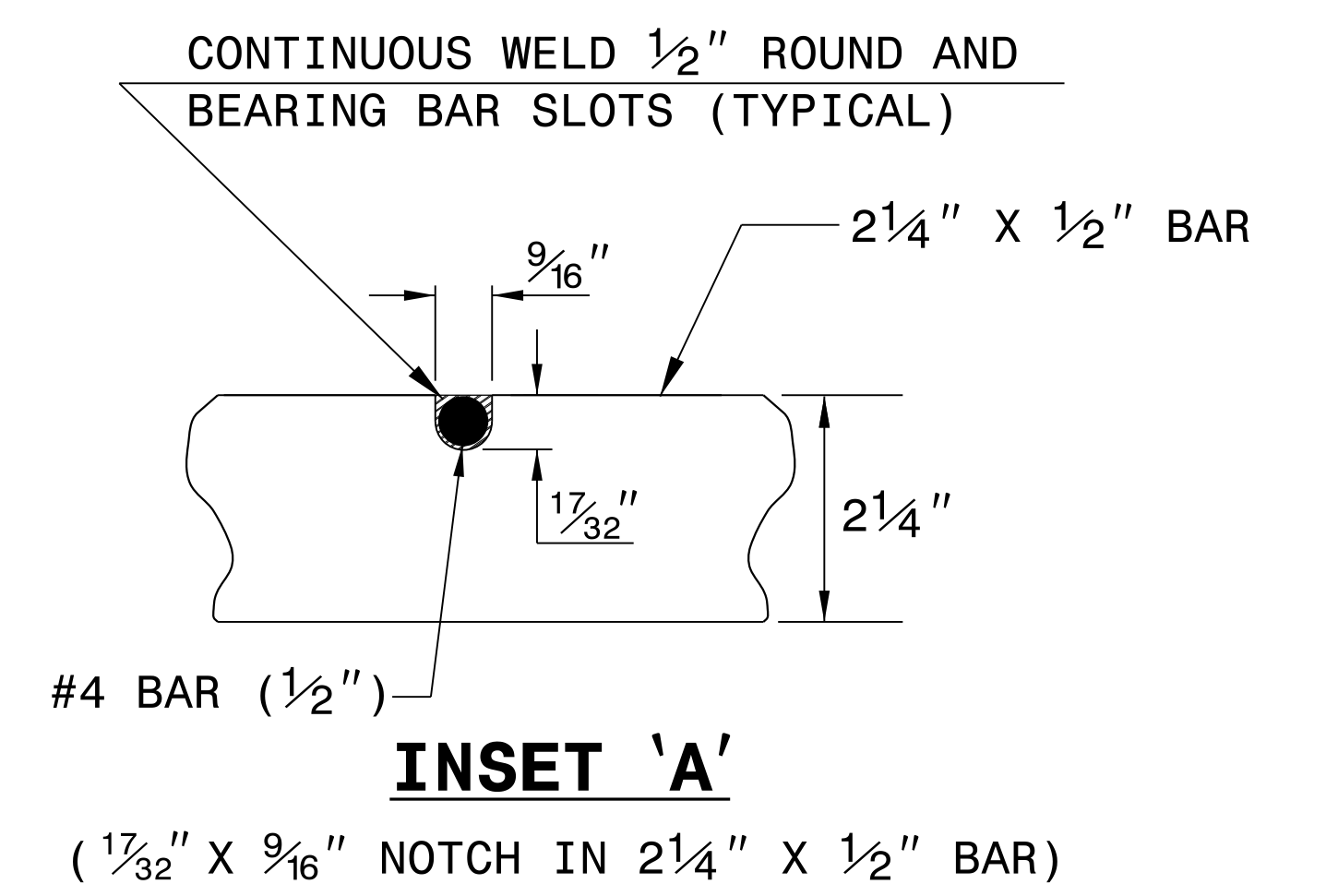
**SECTION A-A  
GRATE**



**SECTION B-B**



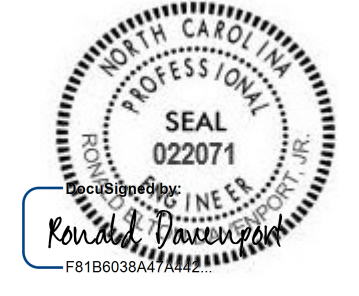
**DETAIL OF BEARING BAR**



**INSET 'A'**

I:\MAY-2018\_08138\_S:\Contracts\Special\_Details\Vertical\usr\details\stand\bicyclesafe.dgn  
J:\power\ton AT\_CSD-2\2595

REVISED 10-10-02  
FOR HS-20 LOADING



**CONTRACT STANDARDS  
AND DEVELOPMENT UNIT**  
Office 919-707-6950 FAX 919-250-4119

**BICYCLE SAFE  
STEEL GRATE AND FRAME**

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

ORIGINAL BY: E.E. WARD DATE: 11-12-98  
MODIFIED BY: E.E. WARD DATE: 10-10-02  
CHECKED BY: DATE:  
FILE SPEC.: /usr/stand/details/bicyclesafe.dgn